

US EPA ARCHIVE DOCUMENT

7-11-97

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Da37059

DP Barcode : D219266
PC Code No : 129121
EEB Out :

To: Richard Keigwin
Product Manager 10
Registration Division (7505C)

From: Doug Urban
Screening and Greybeard Panel/EFED (7507C)

Attached, please find the EEB review of...

Reg./File # : 264-EUP-RNR RNE ; 264-LTN
Chemical Name : Fipronil
Type Product : Insecticide
Product Name : REGENT 80WG
Company Name : Rhone-Polenc Ag Company
Purpose : Section 5 (EUP)-for use on cotton
Action Code : 710 Date: 7/11/97
Reviewer : N.E. Federoff (Wildlife Biologist)

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT	GDLN NO	MRID NO	CAT
71-1(A)	437766-01	C	72-2(A)			72-7(A)		
71-1(B)	437766-02	C	72-2(B)			72-7(B)		
71-2(A)			72-3(A)			122-1(A)		
71-2(B)			72-3(B)			122-1(B)		
71-3			72-3(C)			122-2		
71-4(A)			72-3(D)			123-1(A)		
71-4(B)			72-3(E)			123-1(B)		
71-5(A)			72-3(F)			123-2		
71-5(B)			72-4(A)			124-1		
72-1(A)			72-4(B)			124-2		
72-1(B)			72-5			141-1		
72-1(C)			72-6			141-2		
72-1(C)						141-5		

Y=Acceptable (Study satisfied Guideline)/Concur
P=Partial (Study partially fulfilled Guideline but additional information is needed)
S=Supplemental (Study provided useful information but Guideline was not satisfied) N=Unacceptable (Study was rejected)/Nonconcur

ECOLOGICAL EFFECTS BRANCH REVIEW

Chemical Name: Fipronil: 5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1,R,S)-(trifluoromethyl)sulfinyl)-1-H-pyrazole-3-carbonitrile

Common Name: FIPRONIL

Trade Name: REGENT 80 WG Insecticide

100.0 Submission and Label Information

100.1 Nature and Scope of the Submission

Request for an experimental use permit (Section 5 of FIFRA) for use of Fipronil (REGENT 80 WG) on cotton throughout selected areas in the United States.

100.2 Treatment Area

Proposed label restricts use to the states of Alabama, Arkansas, Arizona, California, Florida, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas.

Total Acreage: 1996: 3,360 (84 locations)
1997: 4,720 (118 locations)

Total Quantity of Formulated Product: 1996: 1,260 lbs
1997: 1,770 lbs

Total Quantity of Active Ingredient: 1996: 1,008 lbs
1997: 1,416 lbs

100.3 Target Organisms

Thrips, Plant bugs (*Lygus*), and Boll weevil.

100.4 Formulation Information

REGENT 80 WG is considered a dry powder flowable water dispersible formulation and applied by either foliar spray or In-Furrow methods.

***Active Ingredient:**

5-amino-1-(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-((1,R,S)-(trifluoromethyl)sulfinyl)-1-H-pyrazole-3-carbonitrile.....80%
Inert Ingredients.....20%

*Contains 0.833 pounds of active ingredient per pound of product.

100.5 Application Methods and RatesPOUNDS OF FIPRONIL
REGENT 80 WG

APPLICATION METHOD	PESTS CONTROLLED	OUNCES PER ACRE	DIRECTIONS	USE RESTRICTIONS
In-furrow at planting	Thrips	2.0-3.0 oz. in a minimum of 3 gallons of water	Straight-stream or flat-fan nozzles aligned with the row.	Do not exceed 0.3 lbs ai/acre (6 oz 80 WG)
Foliar spray	Thrips	0.5 to 0.75	Apply a minimum 1 gallon of water mixture by air per acre. Apply minimum of 3 gallons of spray per acre by ground. Repeat as necessary to maintain control.	Do not apply less than 45 days before harvest. Only make one In-furrow application
Foliar spray	Plant bugs	0.75 to 1.0	Apply ounces of product in a minimum of 1 gallon of water/A by air. 3 gallon minimum spray/A by ground.	Begin application when insects reach recognized economic threshold. Apply at 3-10 day interval to maintain control.
Foliar spray	Boll Weevil	1.0 to 1.36	Apply ounces of product in a minimum of 1 gallon of water/A by air. 3 gallon minimum spray/A by ground.	

100.6 Date and Duration

Duration is two years from the date of EPA approval.

100.7 Precautionary Labeling (excerpted from proposed product label)**Environmental Hazards**

This pesticide is toxic to birds and aquatic and estuarine organisms (fish and invertebrates). Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Cover, incorporate or clean up granules that are spilled during loading or visible on soil surface in turn areas. Do not contaminate water when disposing of equipment wash water.

101.0 Hazard Assessment**101.1 Discussion**

Rhone-Poulenc Ag Company has applied for an experimental use permit for FIPRONIL (REGENT 80 WG) insecticide for cotton for the 1996 and 1997 growing seasons. REGENT 80 WG is a new soil insecticide with no currently registered uses.

REGENT 80 WG is a soil insecticide formulated as a fine flowable powder mixable in water and applied by air or with ground equipment. It is applied by using one of two application methods; either one In-Furrow application at planting or by foliar spray.

This EUP will be applied/used in certain states (see below). Each test site will range from 20 to 65 acres (maximum) in size with an average plot size of 40 acres. A maximum of 0.3 lb ai/A of REGENT 80 WG will be applied per acre per season.

STATE	COUNTY	ACREAGE	
		1996	1997
California	Kern, Tulare, Fresno, Madera, Merced, Imperial, Riverside	360	480
Arizona	Maricopa, Yuma, LaPaz, Pinal, Pima	200	400